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Mata kuliah : UAS kecerdasan buatan

Pasien yang masuk rumah sakit sedikit (15),normal (20) ,ramai (30)

Biaya fasilitas vip (rp.750.000) , mahal (rp.500.000),standar (rp.250.000),murah (150.000)

Penanganan nya cepat (10) lambat (5)

Rules :

- 1.jika pasien sedikit dan fasilitas murah maka pengananya lambat
- 2.jika pasien sedikit dan fasilitas standar maka penangannya cepat
- 3.jika pasien sedikit dan fasilitas mahal maka penaganan nya cepat
- 4.jika pasien sedikit dan fasilitas vip maka penagannya cepat
- 5.jika pasien ramai dan fasilitas murah maka penagannanya lambat
- 6.jikas pasien ramai dan fasilitas standar maka penagannya lambat
7. jika pasien ramai dan fasilitas vip maka penanganan nya lambat.
- 8.jika pasien normal dan fasilitas mahal maka penagannya cepat
- 9.jika pasien normal dan fasilitas murah maka penagannya lambat
- 10.jika pasien normal dan fasilitas vip maka penangannya cepat
- 11.jika pasien normal dan fasilitas standar maka penangannya lambat
- 12.jika pasien ramai dan fasilitas mahal maka penangannya lambat

1.pertanyaan

Jika banyaknya pasien 10 dan fasilitasnya 750.000

1. Variabel Banyak pasien

- a. μ sedikit 10 = 1
- b. μ normal 10 = 0
- c. μ ramai 10 = 0
- d.

2. Variabel Banyak biaya fasilitas

- e. μ vip 750.000 = 1
- f. μ mahal 750.000 = 0
- g. μ standar 750.000 = 0
- h. μ murah 750.000 = 0

3. infrensi

$$\begin{aligned} 1. \alpha 1 &= \mu \min (\mu \text{ Pasien Sedikit } [10], \mu \text{ fasilitas murah } [750.000]) \\ &= \min ([1],[0]) \\ &= 0 \end{aligned}$$

$$\frac{Z_{max} - Z1}{Z_{max} - Z_{min}} = a1$$

$$Z1 = Z_{max} - a1 (Z_{max} - Z_{min})$$

$$Z1 = 10 - 0 (10-5)$$

$$Z1=5$$

$$\begin{aligned} 2. \alpha 2 &= \mu \min (\mu \text{ Pasien Sedikit } [10], \mu \text{ fasilitas standar } [750.000]) \\ &= \min ([1],[0]) \\ &= 0 \end{aligned}$$

$$\frac{Z2 - Z_{min}}{Z_{max} - Z_{min}} = a2$$

$$Z2 = a2(Z_{max} - Z_{min}) + Z_{min}$$

$$Z2 = 0(10-5) + 5$$

$$Z2=0+10$$

$$Z2= 10$$

$$\begin{aligned}
3.\alpha_3 &= \mu \min (\mu \text{ Pasien Sedikit } [10], \mu \text{ fasilitas mahal } [750.000]) \\
&= \min ([1],[0]) \\
&= 0
\end{aligned}$$

$$\frac{Z_3 - Z_{\min}}{Z_{\max} - Z_{\min}} = a_3$$

$$Z_3 = a_3(Z_{\max} - Z_{\min}) + Z_{\min}$$

$$Z_3 = 0(10-5)+5$$

$$Z_3 = 0+10$$

$$Z_3 = 10$$

$$\begin{aligned}
4.\alpha_4 &= \mu \min (\mu \text{ Pasien Sedikit } [10], \mu \text{ fasilitas vip } [750.000]) \\
&= \min ([1],[1]) \\
&= 1
\end{aligned}$$

$$\frac{Z_4 - Z_{\min}}{Z_{\max} - Z_{\min}} = a_4$$

$$Z_4 = a_4(Z_{\max} - Z_{\min}) + Z_{\min}$$

$$Z_4 = 1(10-5)+5$$

$$Z_4 = 1+10$$

$$Z_4 = 11$$

$$\begin{aligned}
5.\alpha_5 &= \mu \min (\mu \text{ pasien ramai } [10], \mu \text{ fasilitas murah } [750.000]) \\
&= \min ([1],[0]) \\
&= 0
\end{aligned}$$

$$\frac{Z_5 - Z_{\min}}{Z_{\max} - Z_{\min}} = a_5$$

$$Z_5 = a_5(Z_{\max} - Z_{\min}) + Z_{\min}$$

$$Z_5 = 0.(10-5)+5$$

$$Z_5 = 10$$

$$\begin{aligned}
6.\alpha 6 &= \mu \min (\mu \text{ Pasien ramai [10], } \mu \text{ fasilitas standar [750.000]}) \\
&= \min ([1],[0]) \\
&= 0
\end{aligned}$$

$$\frac{Z_{max} - Z_6}{Z_{max} - Z_{min}} = a_6$$

$$Z_6 = Z_{max} - a_6(Z_{max} - Z_{min})$$

$$Z_6 = 10-5$$

$$Z_6 = 5$$

$$\begin{aligned}
7.\alpha 7 &= \mu \min (\mu \text{ Pasien ramai [10], } \mu \text{ fasilitas vip [750.000]}) \\
&= \min ([1],[1]) \\
&= 1
\end{aligned}$$

$$\frac{Z_{max} - Z_7}{Z_{max} - Z_{min}} = a_7$$

$$Z_7 = Z_{max} - a_7(Z_{max} - Z_{min})$$

$$Z_7 = 10-1(10-5)$$

$$Z_7 = 14$$

$$\begin{aligned}
8.\alpha 8 &= \mu \min (\mu \text{ Pasien normal [10], } \mu \text{ mahal [750.000]}) \\
&= \min ([1],[0])
\end{aligned}$$

$$= 0$$

$$\frac{Z_{max} - Z_8}{Z_{max} - Z_{min}} = a_8$$

$$Z_8 = Z_{max} - a_8(Z_{max} - Z_{min})$$

$$Z_8 = 10-0(10-5)$$

$$Z_8 = 5$$

$$\begin{aligned}
9.\alpha 9 &= \mu \min (\mu \text{ Pasien normal [10], } \mu \text{ fasilitas murah [750.000]}) \\
&= \min ([1],[0])
\end{aligned}$$

$$= 0$$

$$\frac{Z_{max} - a_9}{Z_{max} - Z_{min}} = a_9$$

$$Z_4 = Z_{max} - a_4(Z_{max} - Z_{min})$$

$$Z_4 = 10 - 0(10 - 5)$$

$$Z_4 = 5$$

$$10. \times 10 = \mu \min (\mu \text{ Pasien normal } [10], \mu \text{ fasilitas vip } [750.000])$$

$$= \min([1], [1])$$

$$= 1$$

$$\frac{Z_{10} - Z_{min}}{Z_{max} - Z_{min}} = a_{10}$$

$$Z_{10} = a_{10} - (Z_{max} - Z_{min}) + Z_{min}$$

$$Z_{10} = 1 - (10 - 5) + 5$$

$$Z_{10} = 9$$

$$11. \times 11 = \mu \min (\mu \text{ Pasien normal } [10], \mu \text{ fasilitas standar } [750.000])$$

$$= \min([1], [0])$$

$$= 0$$

$$\frac{Z_{11} - Z_{min}}{Z_{max} - Z_{min}} = a_{11}$$

$$Z_{11} = a_{11} - (Z_{max} - Z_{min}) + Z_{min}$$

$$Z_{11} = 0(10 - 5) + 5$$

$$Z_{11} = 10$$

$$12. \times 12 = \mu \min (\mu \text{ Pasien ramai } [10], \mu \text{ fasilitas mahal } [750.000])$$

$$= \min([1], [0])$$

$$= 0$$

$$\frac{Z_{12} - Z_{min}}{Z_{max} - Z_{min}} = a_{12}$$

$$Z_{12} = a_{12} - (Z_{max} - Z_{min}) + Z_{min}$$

$$Z_{12} = 0(10 - 5) + 5$$

$$Z_{12} = 10$$